

Message

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To: Brennan, Thomas [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=78caa4c8d91743c887c1bb5dc8cdb369-Thomas Brennan]
Subject: CASAC Member

Allen S. Lefohn
President
A.S.L. & Associates, LLC
Helena, MT
Nominated by Dr. Richard Yamada

Dr. Allen S. Lefohn is currently President and Founder of A.S.L. & Associates, LLC in Helena, Montana. From 1981 until 2017, he served as President and Founder of A.S.L. & Associates, a Montana corporation. He received his Bachelor's degree from UCLA in 1966 and a Ph.D. in physical chemistry from the University of California at Berkeley in 1969. His advisor was Professor George C. Pimentel. For the period 1989 – 1999, he served as an Executive Editor of the internationally recognized journal Atmospheric Environment and is an Emeritus Editor of the Journal. Dr. Lefohn has published approximately 125 peer-reviewed publications, edited four books, presented numerous oral papers, and participated in panel presentations. During a career spanning over 50 years, his research has focused on (1) understanding the importance of background ozone in relation to ambient concentrations, (2) developing exposure-response relationships and indices that describe the effects of ozone on vegetation and human health, (3) investigating biological mechanisms that define the nonlinearity (i.e., weighting of the higher concentrations more than the mid- and low-level values) response to ozone for both human health and vegetation, and (4) integrating results from the EPA's air quality database for (a) characterizing co-occurrence patterns of criteria air pollutants under ambient conditions (e.g., ozone, sulfur dioxide, and nitrogen dioxide), (b) characterizing ozone trend patterns, and (c) designing research experiments that utilize realistic ambient exposures for assessing human health and vegetation effects. For 19 years, Dr. Lefohn has worked with the American Lung Association in characterizing ambient ozone and particulate matter data for the organization's annual State of the Air report. His research results have also been applied by the EPA. Between 2007 and 2015, EPA staff, CASAC, and the EPA Administrator considered the application of an exposure metric, the W126 exposure index, as the federal standard to protect vegetation. Dr. Lefohn created the exposure metric in 1985 with the help of the first-generation Apple Macintosh computer and described the metric in the peer-review literature in 1987 and 1988. In October 2015, the EPA Administrator announced that the 8-h ozone standard would be used as a surrogate for the protection of vegetation; the EPA continues to use the W126 metric as an indicator of the potential risk of ambient ozone exposures to vegetation.

Dr. Lefohn is familiar with the EPA's rulemaking process. He was the lead consultant scientist for the EPA in authoring the air quality characterization chapter and the vegetation exposure-response section for the Ozone Criteria Document in 1996 and contributed to the Ozone Criteria Documents in 1985 and 2006. Dr. Lefohn presented testimony in March 2015 to the House Committee on Science, Space, and Technology about background ozone. In 2015, Dr. Lefohn was a co-guest editor for the Atmospheric Environment special issue: Observations and source attribution of ozone in rural regions of the Western United States. Dr. Lefohn is currently on the Steering Committee of the important international research effort, Tropospheric Ozone Assessment Report (TOAR). The project provides the international research community with an up-to-date scientific assessment of tropospheric ozone's global distribution and trends from the surface to the tropopause. Dr. Lefohn is the lead author (with 23 additional co-authors) of the TOAR paper, Global Ozone Metrics for Climate Change, Human Health and Crop/Ecosystem Research, which was published in April 2018 and is available online. Dr. Lefohn is currently an Adjunct Professor of Environmental Engineering at Montana Tech in Butte, Montana. He is a member of the AAAS. For the past two years, Dr. Lefohn's funding sources for his research activities have originated from the American Lung Association and his own company, A.S.L. & Associates.

-Aaron

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